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<u>L1</u>	archaeal polymerase	20	<u>L1</u>

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FILE 'MEDLINE' ENTERED AT 16:53:55 ON 17 NOV 2004

=> s poly u sepharose?

L1 694 POLY U SEPHAROSE?

=> s archaeal polymerase

L2 4 ARCHAEOAL POLYMERASE

=> d l2 1-4

L2 ANSWER 1 OF 4 CA COPYRIGHT 2004 ACS on STN

AN 134:142663 CA

TI The orientation of DNA in an archaeal transcription initiation complex

AU Bartlett, Michael S.; Thomm, Michael; Geiduschek, E. Peter

CS Department of Biology and Center for Molecular Genetics, University of California, La Jolla, CA, 92093-0634, USA

SO Nature Structural Biology (2000), 7(9), 782-785

CODEN: NSBIEW; ISSN: 1072-8368

PB Nature America Inc.

DT Journal

LA English

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L2 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

AN 2003:81516 BIOSIS

DN PREV200300081516

TI Structural basis for uracil recognition by archaeal family B DNA polymerases.

AU Fogg, Mark J.; Pearl, Laurence H.; Connolly, Bernard A. [Reprint Author]

CS School of Cell and Molecular Biosciences, University of Newcastle, Newcastle upon Tyne, NE2 4HH, UK
b.a.connolly@ncl.ac.uk

SO Nature Structural Biology, (December 2002) Vol. 9, No. 12, pp. 922-927.
print.

ISSN: 1072-8368 (ISSN print).

DT Article

LA English

ED Entered STN: 6 Feb 2003

Last Updated on STN: 6 Feb 2003

L2 ANSWER 3 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

AN 2000:490391 BIOSIS

DN PREV200000490512

TI The orientation of DNA in an archaeal transcription initiation complex.

AU Bartlett, Michael S. [Reprint author]; Thomm, Michael; Geiduschek, E. Peter

CS Department of Biology and Center for Molecular Genetics, University of California, San Diego, La Jolla, CA, 92093-0634, USA

SO Nature Structural Biology, (September, 2000) Vol. 7, No. 9, pp. 782-785.
print.

ISSN: 1072-8368.

DT Article

LA English

ED Entered STN: 15 Nov 2000

Last Updated on STN: 10 Jan 2002

L2 ANSWER 4 OF 4 MEDLINE on STN
 AN 2000455673 MEDLINE
 DN PubMed ID: 10966650
 TI The orientation of DNA in an archaeal transcription initiation complex.
 CM Comment in: Nat Struct Biol. 2000 Sep;7(9):703-5. PubMed ID: 10966630
 AU Bartlett M S; Thomm M; Geiduschek E P
 CS Department of Biology and Center for Molecular Genetics, University of California, San Diego, La Jolla, California 92093-0634, USA..
 bartlett@biomail.ucsd.edu
 SO Nature structural biology, (2000 Sep) 7 (9) 782-5.
 Journal code: 9421566. ISSN: 1072-8368.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals; Space Life Sciences
 EM 200009
 ED Entered STN: 20001005
 Last Updated on STN: 20001005
 Entered Medline: 20000928

=> d 12 1-4 ab,bib

L2 ANSWER 1 OF 4 CA COPYRIGHT 2004 ACS on STN
 AB RNA polymerase from the hyperthermophile archaeon *Pyrococcus furiosus* (Pfu) forms specific and transcriptionally active complexes with its conjugate transcription factors TBP (the archaeal TATA binding protein homolog) and TFB (the archaeal homolog of eukaryotic RNA polymerase II and III transcription factors TFIIB and Brf) at the Pfu glutamate dehydrogenase promoter. A photochem. crosslinking method was used to map vicinity of the catalytic subunits of Pfu RNA polymerase to DNA locations distributed along the polymerase-promoter interface. The largest component of this **archaeal polymerase** is split into two subunits, A' and A'', whose relatively sharp boundary of DNA crosslinking (probed on the transcribed strand) is centered five to six base pairs downstream of the transcriptional start site. A strong argument based on this information, on the well-defined homol. between the core bacterial, archaeal and eukaryotic RNA polymerase subunits, and on the recently determined structure of a bacterial RNA polymerase specifies the directionality of DNA in the archaeal transcription complex and its trajectory downstream of the transcriptional start site.
 AN 134:142663 CA
 TI The orientation of DNA in an archaeal transcription initiation complex
 AU Bartlett, Michael S.; Thomm, Michael; Geiduschek, E. Peter
 CS Department of Biology and Center for Molecular Genetics, University of California, La Jolla, CA, 92093-0634, USA
 SO Nature Structural Biology (2000), 7(9), 782-785
 CODEN: NSBIEW; ISSN: 1072-8368
 PB Nature America Inc.
 DT Journal
 LA English
 RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L2 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
 AB Deamination of cytosine to uracil in a G-C base pair is a major promutagenic event, generating G-C to T-A mutations if not repaired before DNA replication. Archaeal family B DNA polymerases are uniquely able to recognize unrepaired uracil in a template strand and stall polymerization upstream of the lesion, thereby preventing the irreversible fixation of an A-T mutation. We have now identified a 'pocket' in the N-terminal domains of archaeal DNA polymerases that is positioned to interact with the template strand and provide this ability. The structure

of this pocket provides interacting groups that discriminate uracil from the four normal DNA bases (including thymine). These groups are conserved in **archaeal polymerase** but absent from homologous viral polymerases that are unable to recognize uracil. Using site-directed mutagenesis, we have confirmed the biological role of this pocket and have engineered specific mutations in the Pfu polymerase that confer the ability to read through template-strand uracils and carry out PCR with dUTP in place of dTTP.

AN 2003:81516 BIOSIS
DN PREV200300081516
TI Structural basis for uracil recognition by archaeal family B DNA polymerases.
AU Fogg, Mark J.; Pearl, Laurence H.; Connolly, Bernard A. [Reprint Author]
CS School of Cell and Molecular Biosciences, University of Newcastle, Newcastle upon Tyne, NE2 4HH, UK
b.a.connolly@ncl.ac.uk
SO Nature Structural Biology, (December 2002) Vol. 9, No. 12, pp. 922-927. print.
ISSN: 1072-8368 (ISSN print).
DT Article
LA English
ED Entered STN: 6 Feb 2003
Last Updated on STN: 6 Feb 2003

L2 ANSWER 3 OF 4 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
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AN 2000:490391 BIOSIS
DN PREV200000490512
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AU Bartlett, Michael S. [Reprint author]; Thomm, Michael; Geiduschek, E. Peter
CS Department of Biology and Center for Molecular Genetics, University of California, San Diego, La Jolla, CA, 92093-0634, USA
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ISSN: 1072-8368.
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LA English
FS Priority Journals; Space Life Sciences
EM 200009
ED Entered STN: 20001005
Last Updated on STN: 20001005
Entered Medline: 20000928

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L1 694 S POLY U SEPHAROSE?
L2 4 S ARCHAEOAL POLYMERASE

=> s l1 and l2

L3 0 L1 AND L2